

Title (en)

FLUIDIZED-BED OXIDATION METHOD FOR THE PRODUCTION OF POLYCARBOXYLATES BASED ON POLYSACCHARIDES

Title (de)

WIRBELSCHICHT-OXIDATIONSVERFAHREN ZUR HERSTELLUNG VON POLYCARBOXYLATEN AUF POLYSACCHARID-BASIS

Title (fr)

PROCEDE D'OXYDATION EN LIT FLUIDISE POUR LA FABRICATION DE POLYCARBOXYLATES A BASE DE POLYSACCHARIDES

Publication

**EP 0742797 A1 19961120 (DE)**

Application

**EP 95907584 A 19950123**

Priority

- DE 4402851 A 19940131
- EP 9500227 W 19950123

Abstract (en)

[origin: DE4402851A1] The invention concerns a method of producing polycarboxylic acids or their salts based on polysaccharides by converting at least some of the primary alcohol groups in the polysaccharides into carboxyl groups by oxidation with nitrogen dioxide. The aim of the invention is to simplify the way in which the reaction is carried out while at the same time improving the yield. This is achieved essentially by virtue of the fact that the polysaccharide is reacted in a fluidized bed, fluidized by a gas containing nitrogen dioxide, at pressures of 1 to 12 bar and a temperature between the boiling point of nitrogen dioxide at the pressure used and 160 DEG , the amount of nitrogen dioxide used, summed over the whole reaction time, being at least 2 mole equivalents relative to the alcohol groups being oxidized.

IPC 1-7

**C08B 37/00**; **C08B 31/18**; **C08B 15/04**; **C11D 3/22**

IPC 8 full level

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CPC (source: EP US)

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